

UTILITY APPLICATION

Attorney Docket No.: NIH214.001C1

First Named Inventor: Stephen S. Whitehead

Title: DEVELOPMENT OF MUTATIONS USEFUL FOR ATTENUATING DENGUE VIRUSES AND CHIMERIC DENGUE VIRUSES

Express Mail Label No.: EV 309082606 US

Direct all correspondence to Customer No.: 20995

Date: November 21, 2003

Page 1 of 2

Mail Stop Patent Application

United States Patent and Trademark Office
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The following enclosures are transmitted herewith to be filed in the patent application of:

Inventor(s):

1. Stephen S. Whitehead 2. Brian R. Murphy
3. Kathryn A. Hanley 4. Joseph E. Blaney, Jr.

APPLICATION ELEMENTS:

- (X) Specification in 158 pages.
- (X) Drawings in 12 sheets.
- (X) Sequence Submission Statement in 1 page, and
 - (X) Sequence Listing on paper in 72 pages.
 - (X) Sequence Listing in CRF.

CONTINUITY INFORMATION:

Application	Relationship	Parent App. No.	Filing Date	Status
This Application	Continuation	PCT/US02/16308	5/22/02	Pending
PCT/US02/16308	Benefit of priority	60/293,049	5/22/01	Expired

(X) Incorporation by Reference. The entire disclosure of the prior application(s) is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

OTHER APPLICATION PARTS:

(X) Return prepaid postcard.

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FILING FEES:

FEES CALCULATION				
FEES TYPE		FEES CODE	CALCULATION	TOTAL
Basic Utility		1001 (\$770)		\$770
Non-English Spec.		1053 (\$130)		\$0
Recordation Fee		8021 (\$40)	0 x 40 =	\$0
Excess Claims > 20	215 - 20 = 195	1202 (\$18)	195 x 18 =	\$3510
Independent > 3	4 - 3 = 1	1201 (\$86)	1 x 86 =	\$86
Multiple Claim		1203 (\$290)		\$290
			TOTAL FEE DUE	\$4656

A check in the amount of **\$4656** to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.


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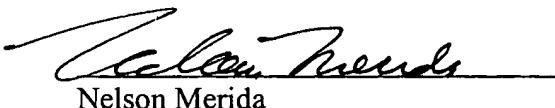
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Attorney Docket No. : NIH214.001C1
Applicant(s) : Whitehead et al.
For : DEVELOPMENT OF MUTATIONS USEFUL
FOR ATTENUATING DENGUE VIRUSES
AND CHIMERIC DENGUE VIRUSES
Attorney : Nancy W. Vensko
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Mailing Label No. : EV 309082606 US
Date of Deposit : November 21, 2003

I hereby certify that the accompanying

Transmittal letter; specification in 158 pages; 12 sheets of drawings; Sequence Submission Statement; Sequence Listing on diskette; paper copy of Sequence Listing in 72 pages; Check for Filing Fee; Return Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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